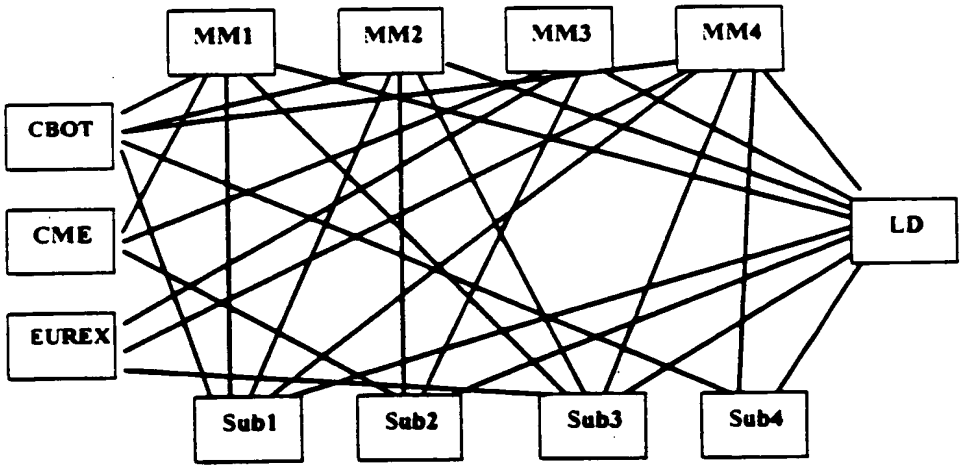
FIGURE 1



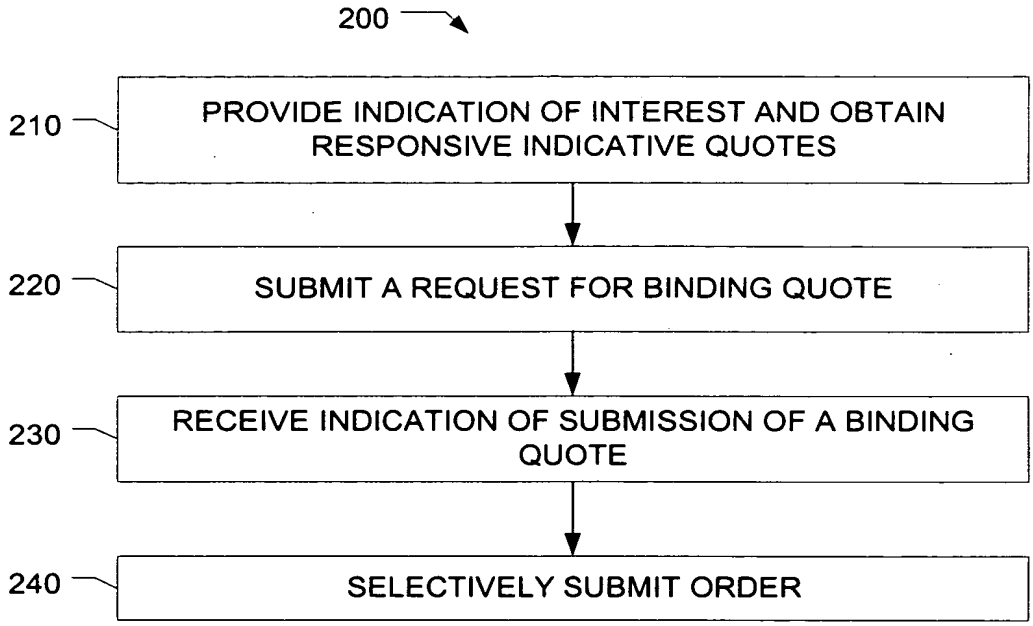


Figure 2A

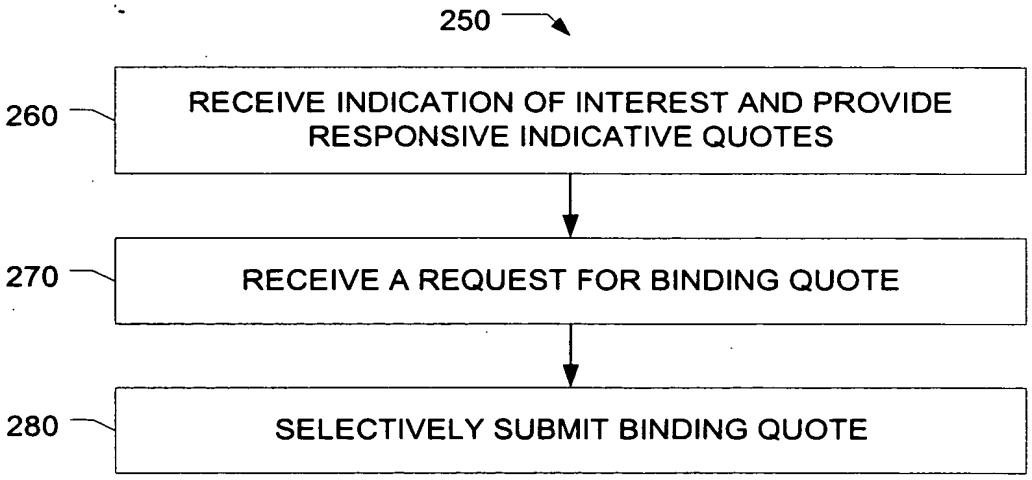


Figure 2B

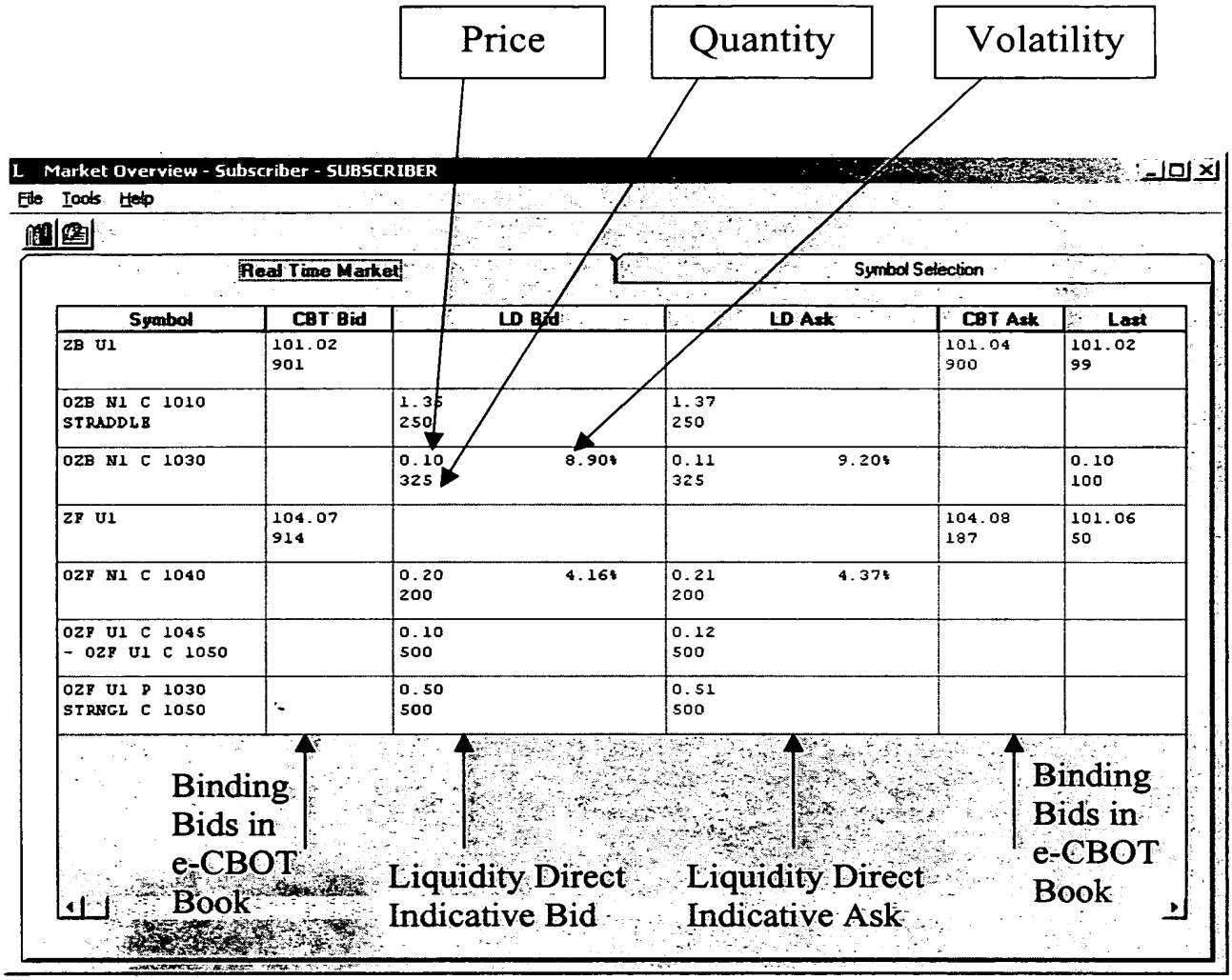

Price
Quantity
Volatility
Market Overview - Subscriber - SUBSCRIBER
File Tools Help
Real Time Market
Symbol Selection
Symbol
CBT Bid
LD Bid
LD Ask
CBT Ask
Last
ZB U1
101.02
901
101.04
900
101.02
99
OZB N1 C 1010
STRADDLE
1.36
250
1.37
250
OZB N1 C 1030
0.10
325
8.90%
0.11
325
9.20%
0.10
100
ZF U1
104.07
914
104.08
187
101.06
50
OZF N1 C 1040
0.20
200
4.16%
0.21
200
4.37%
OZF U1 C 1045
- OZF U1 C 1050
0.10
500
0.12
500
OZF U1 P 1030
STRNGL C 1050
0.50
500
0.51
500
Binding Bids in e-CBOT Book
Liquidity Direct Indicative Bid
Liquidity Direct Indicative Ask
Binding Bids in e-CBOT Book

Figure 3A

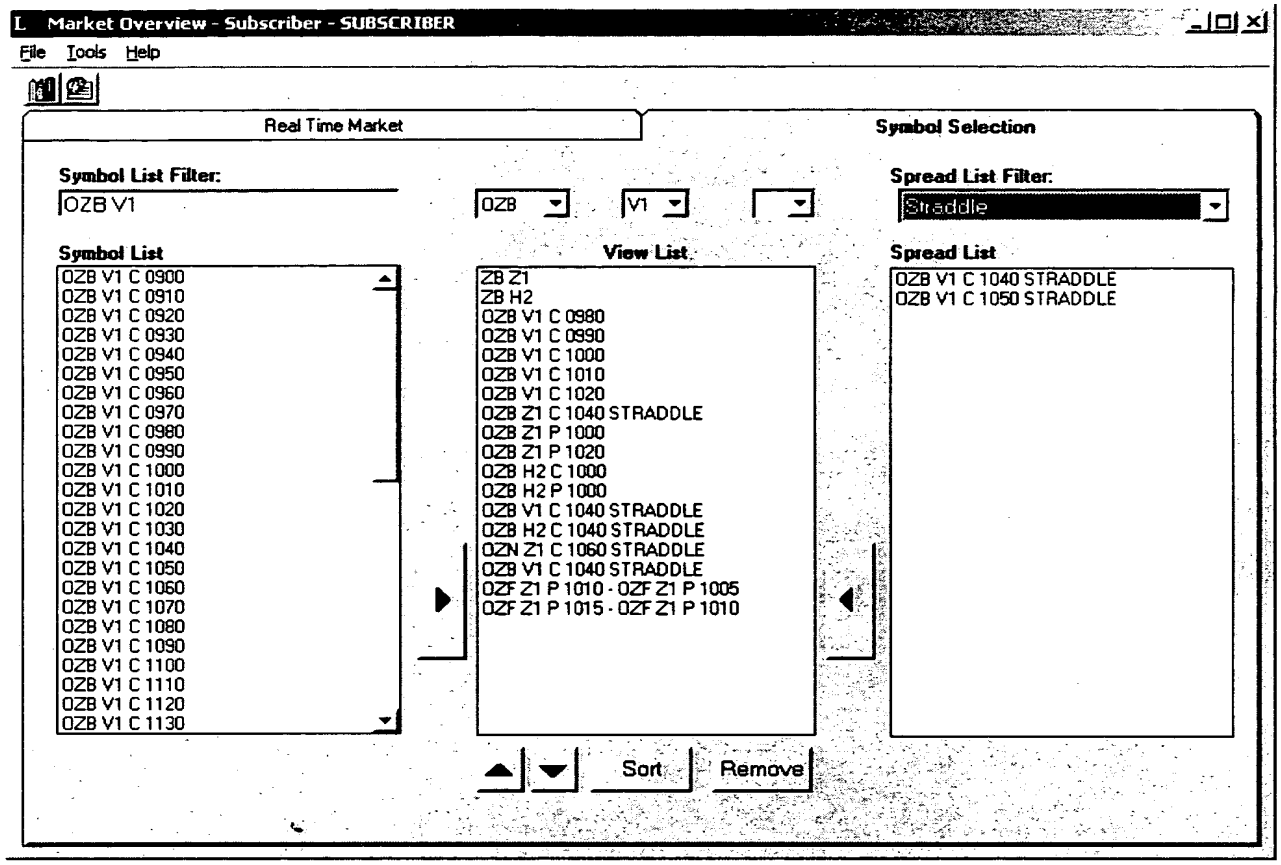


Figure 3B

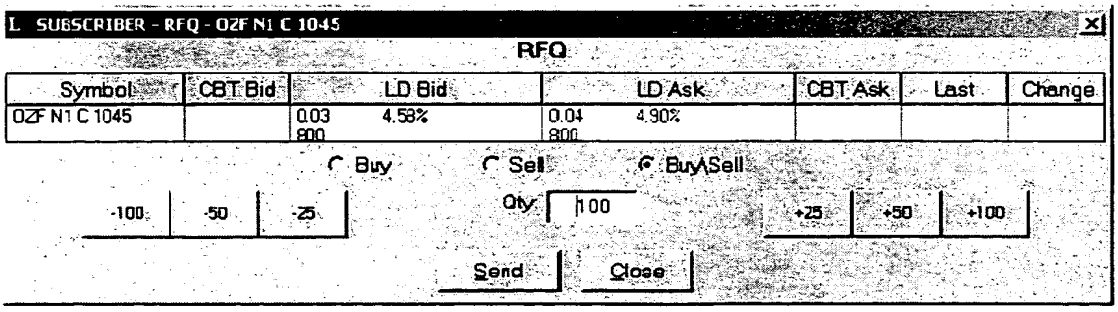


Figure 3C

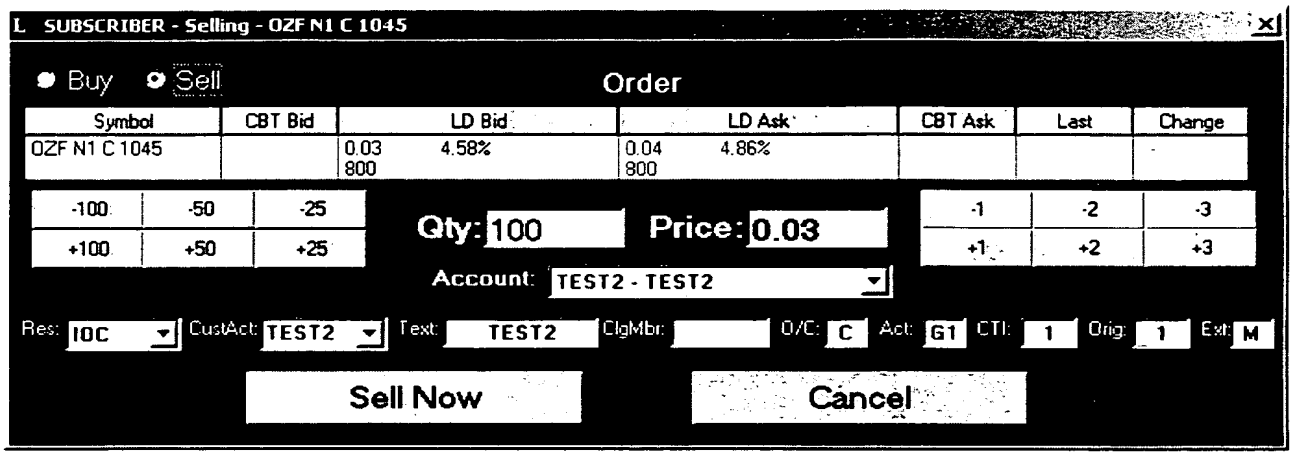


Figure 3D

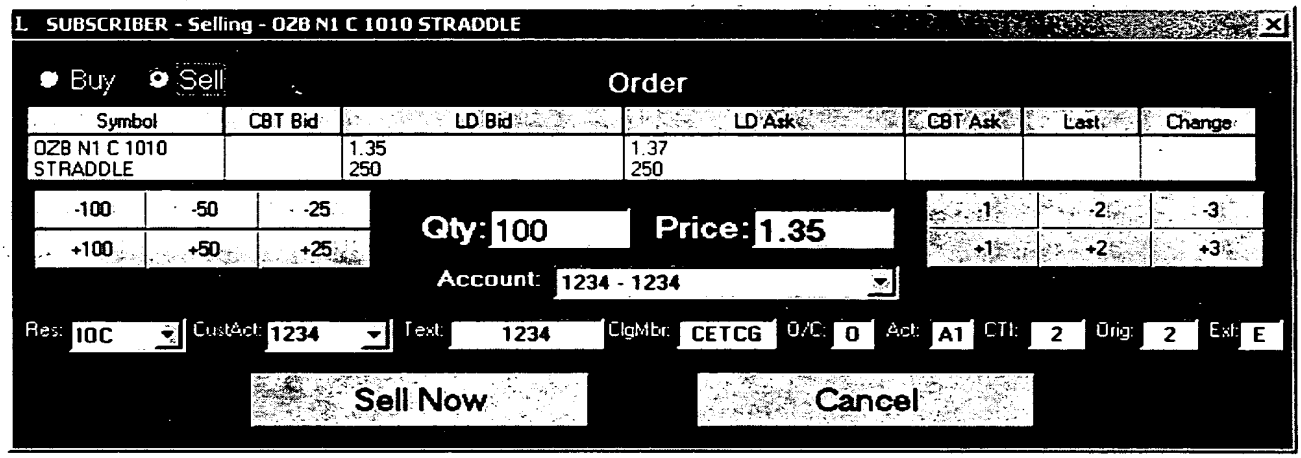


Figure 3E

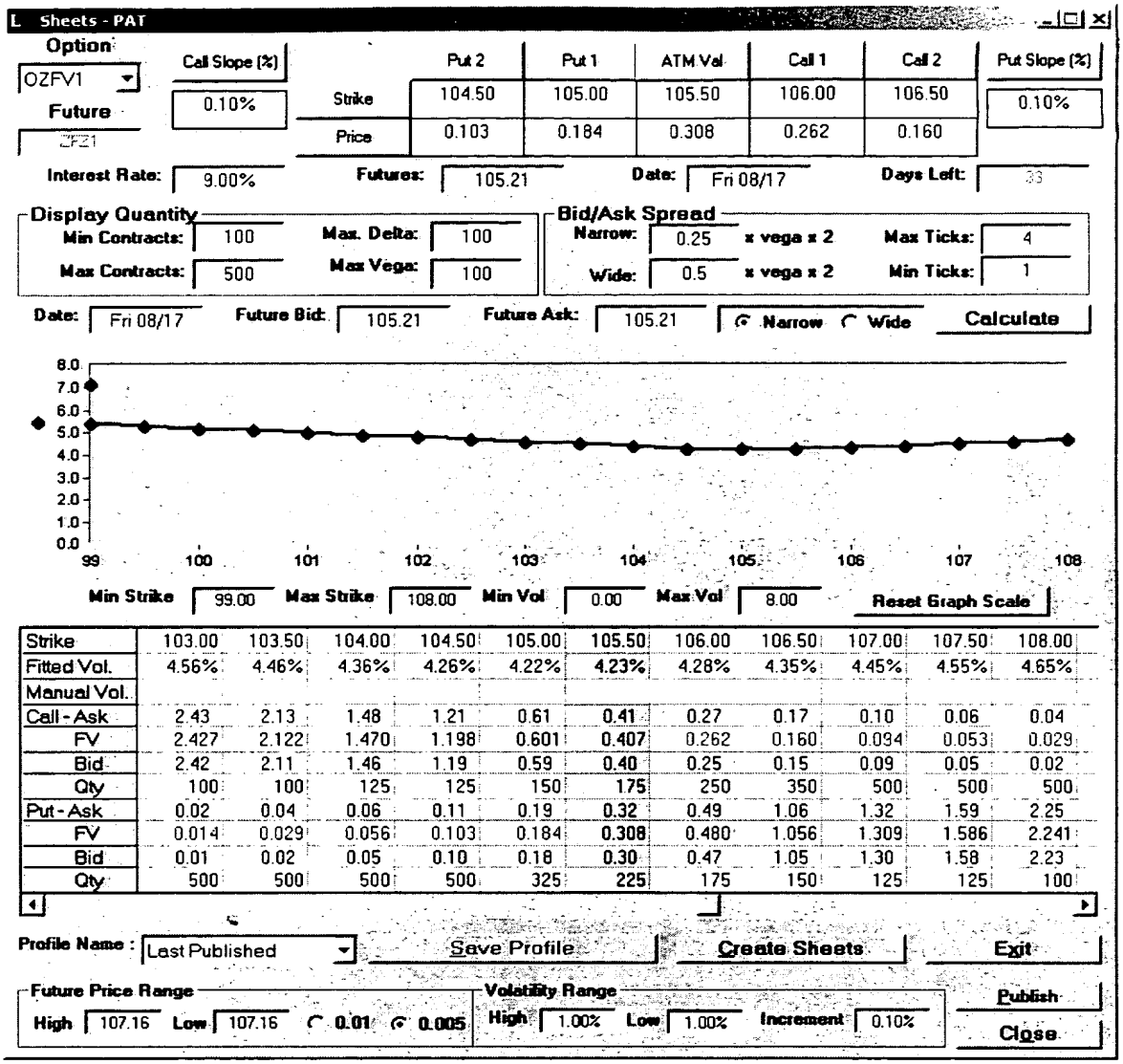
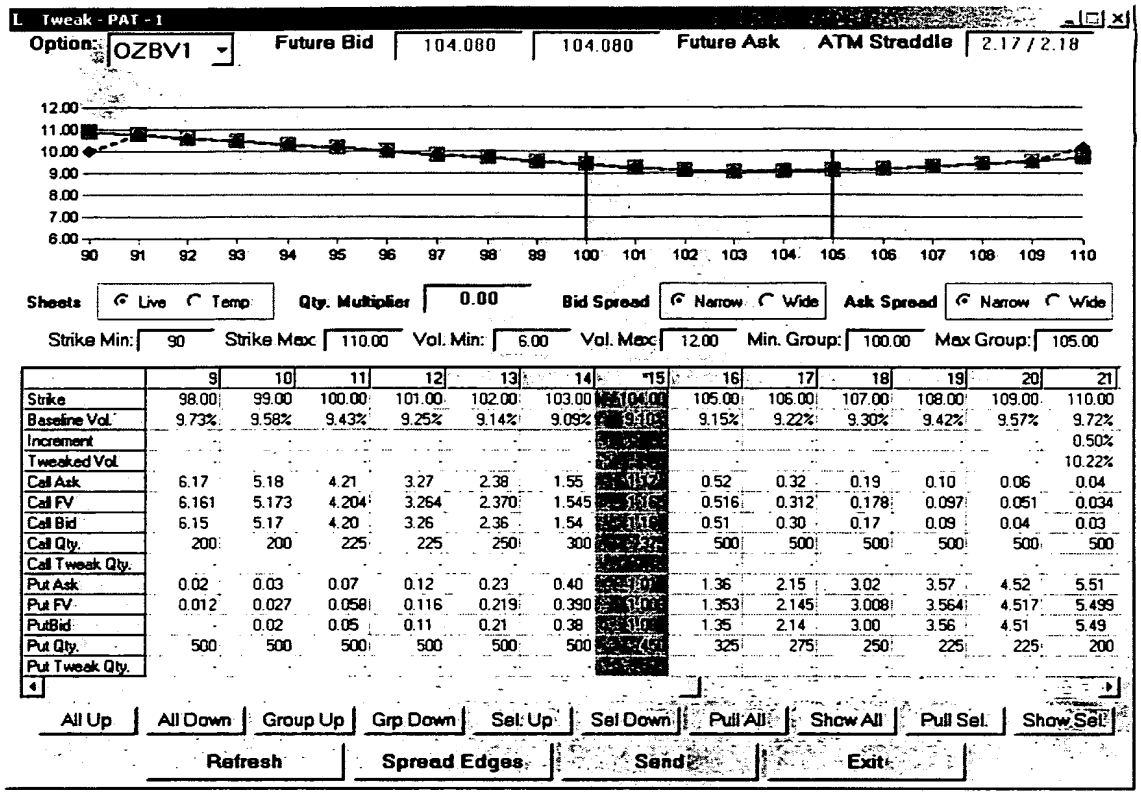

Sheets - PAT
Option
OZFV1
Future
ZF21
Call Slope (%)
0.10%
Put 2
Put 1
ATM Val
Call 1
Call 2
Strike
104.50
105.00
105.50
106.00
106.50
Price
0.103
0.184
0.308
0.262
0.160
Put Slope (%)
0.10%
Interest Rate: 9.00%
Futures: 105.21
Date: Fri 08/17
Days Left: 33
Display Quantity
Min Contracts: 100
Max Contracts: 500
Max. Delta: 100
Max Vega: 100
Bid/Ask Spread
Narrow: 0.25 x vega x 2
Wide: 0.5 x vega x 2
Max Ticks: 4
Min Ticks: 1
Date: Fri 08/17
Future Bid: 105.21
Future Ask: 105.21
Narrow
Wide
Calculate
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
99
100
101
102
103
104
105
106
107
108
Min Strike 99.00
Max Strike 108.00
Min Vol 0.00
Max Vol 8.00
Reset Graph Scale
Strike 103.00 103.50 104.00 104.50 105.00 105.50 106.00 106.50 107.00 107.50 108.00
Fitted Vol. 4.56% 4.46% 4.36% 4.26% 4.22% 4.23% 4.28% 4.35% 4.45% 4.55% 4.65%
Manual Vol.
Call - Ask 2.43 2.13 1.48 1.21 0.61 0.41 0.27 0.17 0.10 0.06 0.04
FV 2.427 2.122 1.470 1.198 0.601 0.407 0.262 0.160 0.094 0.053 0.029
Bid 2.42 2.11 1.46 1.19 0.59 0.40 0.25 0.15 0.09 0.05 0.02
Qty 100 100 125 125 150 175 250 350 500 500 500
Put - Ask 0.02 0.04 0.06 0.11 0.19 0.32 0.49 1.06 1.32 1.59 2.25
FV 0.014 0.029 0.056 0.103 0.184 0.308 0.480 1.056 1.309 1.586 2.241
Bid 0.01 0.02 0.05 0.10 0.18 0.30 0.47 1.05 1.30 1.58 2.23
Qty 500 500 500 500 325 225 175 150 125 125 100
Profile Name : Last Published
Save Profile
Create Sheets
Exit
Future Price Range
High 107.16 Low 107.16 0.01 0.005
Volatility Range
High 1.00% Low 1.00% Increment 0.10%
Publish
Close

Figure 4A



	9	10	11	12	13	14	15	16	17	18	19	20	21
Strike	98.00	99.00	100.00	101.00	102.00	103.00	104.00	105.00	106.00	107.00	108.00	109.00	110.00
Baseline Vol.	9.73%	9.58%	9.43%	9.25%	9.14%	9.09%	9.10%	9.15%	9.22%	9.30%	9.42%	9.57%	9.72%
Increment													0.50%
Tweaked Vol.													10.22%
Call Ask	6.17	5.18	4.21	3.27	2.38	1.55	1.052	0.52	0.32	0.19	0.10	0.06	0.04
Call FV	6.161	5.173	4.204	3.264	2.370	1.545	1.046	0.516	0.312	0.178	0.097	0.051	0.034
Call Bid	6.15	5.17	4.20	3.26	2.36	1.54	1.040	0.51	0.30	0.17	0.09	0.04	0.03
Call Qty.	200	200	225	225	250	300	325	500	500	500	500	500	500
Call Tweak Qty.													
Put Ask	0.02	0.03	0.07	0.12	0.23	0.40	0.601	1.36	2.15	3.02	3.57	4.52	5.51
Put FV	0.012	0.027	0.058	0.116	0.219	0.390	0.601	1.353	2.145	3.008	3.564	4.517	5.499
PutBid		0.02	0.05	0.11	0.21	0.38	0.60	1.35	2.14	3.00	3.56	4.51	5.49
Put Qty.	500	500	500	500	500	500	325	325	275	250	225	225	200
Put Tweak Qty.													

Figure 4B

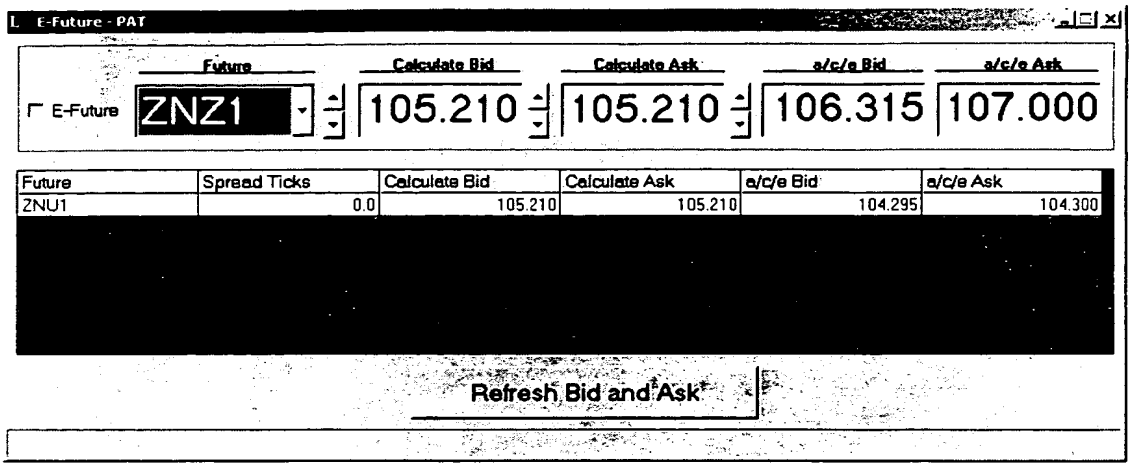
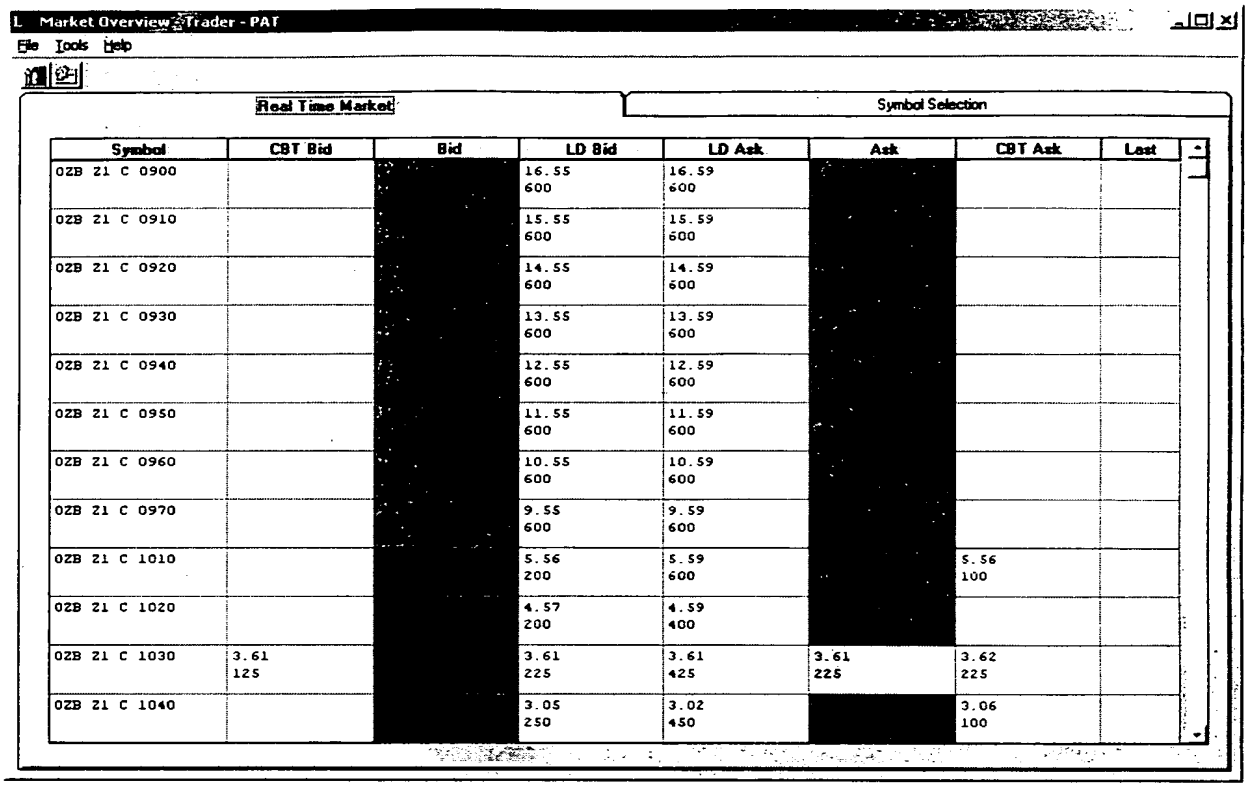

E-Future - PAT
Future
Calculate Bid
Calculate Ask
a/c/e Bid
a/c/e Ask
E-Future
ZNZ1
105.210
105.210
106.315
107.000
Future
Spread Ticks
Calculate Bid
Calculate Ask
a/c/e Bid
a/c/e Ask
ZNU1
0.0
105.210
105.210
104.295
104.300
Refresh Bid and Ask

Figure 4C



Symbol	CBT Bid	Bid	LD Bid	LD Ask	Ask	CBT Ask	Last
OZB Z1 C 0900			16.55 600	16.59 600			
OZB Z1 C 0910			15.55 600	15.59 600			
OZB Z1 C 0920			14.55 600	14.59 600			
OZB Z1 C 0930			13.55 600	13.59 600			
OZB Z1 C 0940			12.55 600	12.59 600			
OZB Z1 C 0950			11.55 600	11.59 600			
OZB Z1 C 0960			10.55 600	10.59 600			
OZB Z1 C 0970			9.55 600	9.59 600			
OZB Z1 C 1010			5.56 200	5.59 600		5.56 100	
OZB Z1 C 1020			4.57 200	4.59 400			
OZB Z1 C 1030	3.61 125		3.61 225	3.61 425	3.61 225	3.62 225	
OZB Z1 C 1040			3.05 250	3.02 450		3.06 100	

Figure 5A

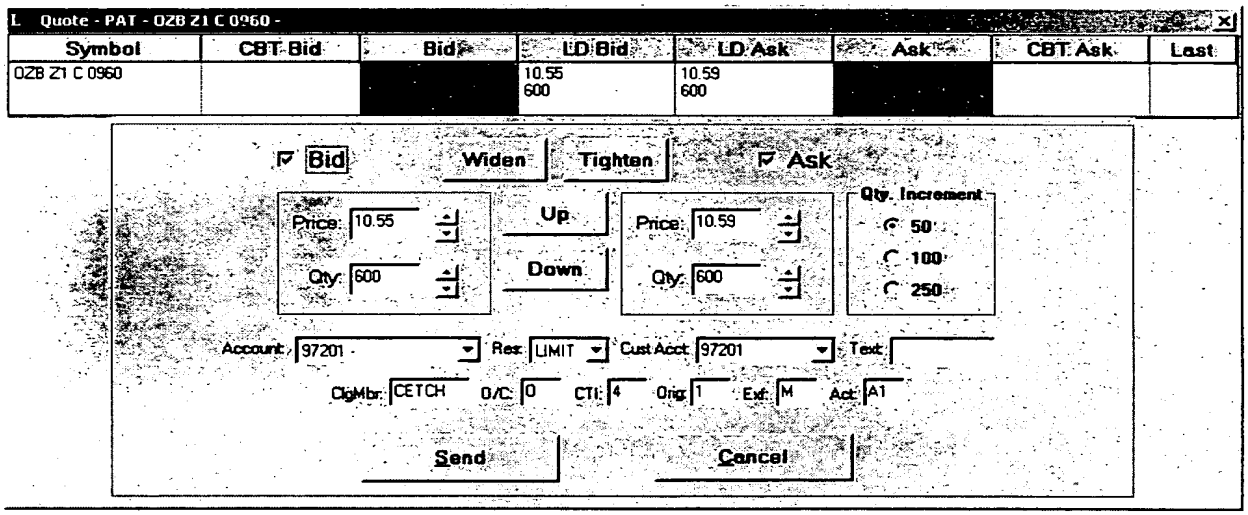


Figure 5B

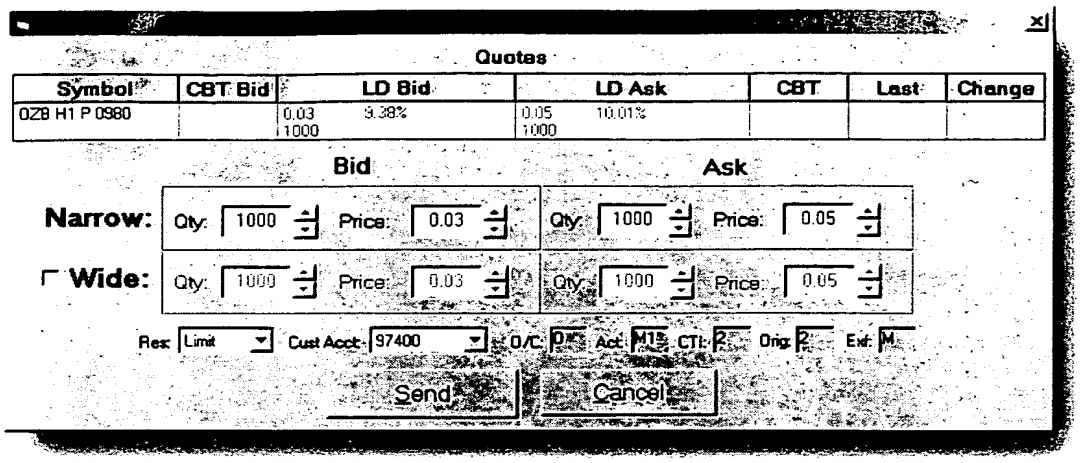

Quotes
Symbol
CBT Bid
LD Bid
LD Ask
CBT
Last
Change
OZB H1 P 0980
0.03
1000
3.38%
0.05
1000
10.01%
Bid
Ask
Narrow:
Qty: 1000
Price: 0.03
Qty: 1000
Price: 0.05
Wide:
Qty: 1000
Price: 0.03
Qty: 1000
Price: 0.05
Res: Limit
Cust Acct: 97400
O/C:
Act:
CTI: 2
Orig: 2
Ext: M
Send
Cancel

Figure 5C

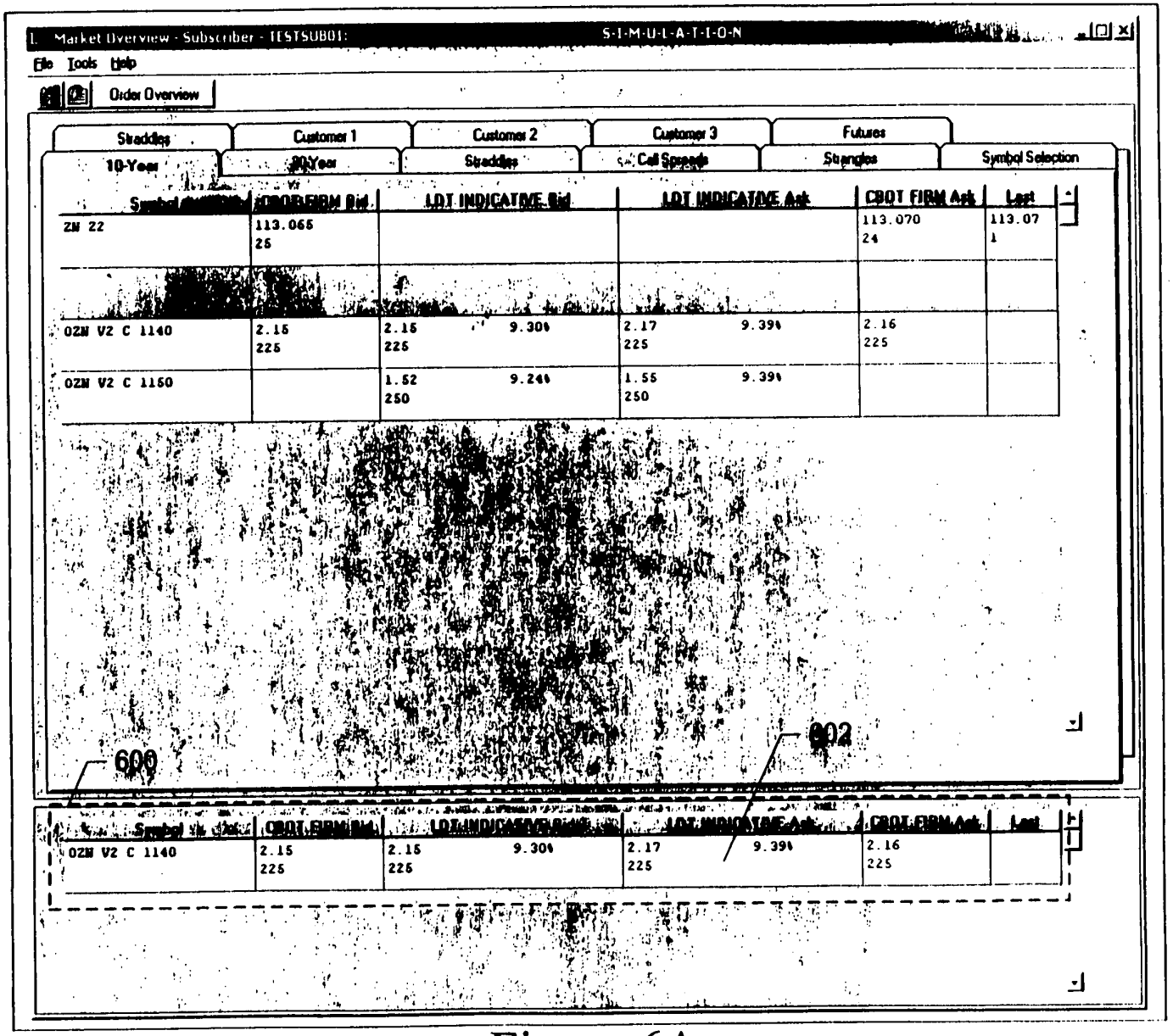
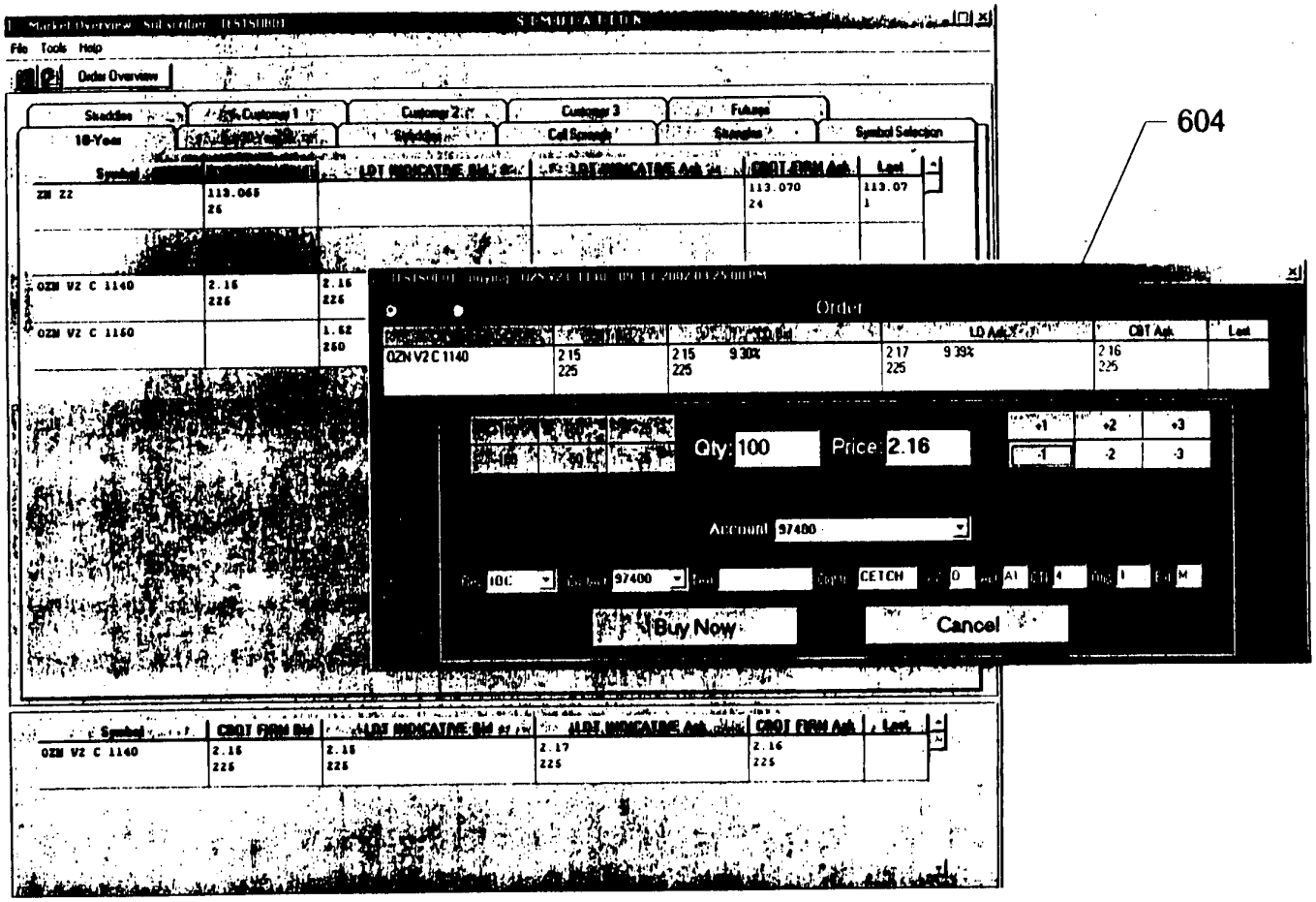


Figure 6A

BEST AVAILABLE COPY



BEST AVAILABLE COPY

Figure 6B